

ABSTRACT

A blank mask including: a transparent substrate and a light shielding film disposed on the transparent substrate, wherein the light shielding film includes a transition metal and at least one of oxygen and nitrogen, and wherein the light shielding film has an SA1 value of 60 to 90 mN/m according to Equation 1-1:

[Equation 1-1]

$$SA1 = \gamma_{SL} \times \tan\theta$$

where, in the Equation 1-1, the γ_{SL} is an interfacial energy between the light shielding film and a pure water and θ is a contact angle of the light shielding film measured with the pure water, is disclosed.

FIG. 1